# PATENT COOPERATION TREATY

PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference PC-9303	FOR FURTHER ACTION as well	see Form PCT/ISA/220 Il as, where applicable, item 5 below.							
	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)							
	PCT/JP2004/012222	19/08/2004	20/08/2003							
	Applicant SHOWA DENKO K.K.									
	This International Search Report has bee according to Article 18. A copy is being tr  This International Search Report consists		nority and is transmitted to the applicant							
)	It is also accompanied by a copy of each prior art document cited in this report.									
	1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application for the international search was carried out on the basis of a translation of the international application for the international application for the international application for the international application for the international application of the international application in the language.									
The international search was carried out on the basis of a translation of the international application furnished this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No.  2. Certain claims were found unsearchable (See Box II).  3. X Unity of invention is lacking (see Box III).  4. With regard to the title,										
							X the text is approved as submitted by the applicant.			
							the text has been establis	shed by this Authority to read as follows: 66%	Fig. 1. 1	
						)				
	5. With regard to the abstract,									
	X the text is approved as su	bmitted by the applicant.								
	the text has been establis may, within one month fro	shed, according to Rule 38.2(b), by this Authorit om the date of mailing of this international searc	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.							
	6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No									
	a. the lighte of the <b>drawings</b> to be placed by									
		ine applicant. is Authority, because the applicant failed to sug	gest a figure.							
		is Authority, because this figure better characte								
		e published with the abstract.								

International application No. PCT/JP2004/012222

# INTERNATIONAL SEARCH REPORT

	Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
	This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
	Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:				
	Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
}	Claims Nos.:     because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
	Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
	This International Searching Authority found multiple inventions in this international application, as follows:				
	see additional sheet				
į	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.  .				
	2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
	3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
	4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-4, 17 (part), 18 (part)				
	Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4, 17(part), 18(part)

Cubic boron nitride having a certain magnesium content, a grinding wheel comprising the same and a sintered compact comprising the same.

2. claims: 5-16, 17(part), 18(part)

A method for producing cubic boron nitride using a catalyst substance which comprises a lithium source, a magnesium source and a carbon source, the product obtainable by the process, a grinding wheel comprising the product obtainable by the process and a sintered compact compring the product obtainable by the process.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/012222

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C09K3/14 C01B21/064 CO4B35/5831 B24D5/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searcheo (classification system followed by classification symbols) IPC 7 C09K C01B C04B B24D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, CHEM ABS Data, COMPENDEX, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ US 5 332 629 A (SUMIYA ET AL) 1-4,1826 July 1994 (1994-07-26) claim 1; figure 14; examples; table 3 EP 0 407 946 A (SUMITOMO ELECTRIC Х 1-4,17, INDUSTRIES, LIMITED; SUMITOMO ELECTRIC INDUSTRIES, L) 16 January 1991 (1991-01-16) claim 1; examples E WO 2004/069399 A (SHOWA DENKO K.K; OTSUBO. 1-4,17,HIROHIKO; IHARA, EIJI; TSUJI, KATŚUYUKI) 18 19 August 2004 (2004-08-19) claims Ε -& US 2004/265203 A1 (OHTSUBO HIROHIKO ET 1-4,17,AL) 30 December 2004 (2004-12-30) 18 claims 1,3 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) " document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. · "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **3.05.05** 8 February 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Munro, B Fax: (+31-70) 340-3016

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### . INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/012222

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